Q7 Use the dicergence therorm to find

$$\iint_S F.ndA$$

where $F=\left(x^2+siny\,z\right)i+\left(y-x\,e^{-z}\right)j+z^{2\,k}$ and S is the surface od the region bounded by the cylinder: $x^2+y^2=4$ and the planes: $x+z=2\,,z=0$